

JUL 18 2006

**510(k) Summary for the
Dimension Vista™ System Alkaline Phosphatase Calibrator
(ALP CAL – KC330)**

A. 510(k) Number: k061818

B. Analyte: Alkaline Phosphatase (ALP).

C. Type of Test: Calibrator Material

D. Applicant: Dade Behring Inc., P.O. Box 6101, Newark, DE 19714-6101
Victor M. Carrio, Regulatory Affairs and Compliance Manager
Office: (302) 631-0376 Fax: (302) 631-6299

E. Proprietary and Established Names:

Dimension Vista™ System Alkaline Phosphatase Calibrator
(ALP CAL – KC330)

F. Regulatory Information:

1. Regulation section: 21 CFR § 862-1150 – Calibrator
2. Classification: Class II
3. Product Code: JIT – Calibrator, Secondary
4. Panel: Clinical Chemistry

G. Intended Use: The ALP CAL is an *in vitro* diagnostic product for the calibration of Alkaline Phosphatase (ALP) method on the Dimension Vista™ System.

H. Device Description:

ALP CAL is liquid bovine protein based product containing alkaline phosphatase from porcine kidney. The kit consists of three vials (Calibrator A, Level 2) which are ready for use (no preparation is required). The volume per vial is 1.0 mL.
System water is used as the ALP zero calibrator (Level 1) for the Dimension Vista™ System.

I. Substantial Equivalence Information:

1. Predicate Device: Dimension® Enzyme Verifier (DC19) and VITROS Chemistry Products Calibrator Kit 3.
2. Predicate K Number(s): K860021 for Dimension® clinical chemistry system. For the Ortho-Diagnostics VITROS Calibrator Kit 3, a 510(k) number was not available.
3. Comparison with Predicate:

Comparison			
Item	Dimension Vista™ System ALP Calibrator	Dimension® Enzyme Verifier	Ortho-Clinical Diagnostics VITROS Calibrator Kit 3
Intended Use	The ALP Calibrator is an <i>in vitro</i> diagnostic product for the calibration of alkaline phosphatase (ALP) on the Dimension Vista™ System.	Enzyme Verifier is an <i>in vitro</i> diagnostic product to be used to verify alkaline phosphatase (ALP) , amylase (AMY), g-glutamyl transferase (GGT), aspartame aminotransferase (AST), alanine aminotransferase (ALT) and lactic dehydrogenase (LDH) method performance on the Dimension® clinical chemistry system.	For <i>in vitro</i> diagnostic use only. VITROS Calibrator Kit 3 is intended for use in calibration of the VITROS Chemistry Systems for the quantitative measurement of AcP, ALKP , ALT, AST, CK, GGT, LDH and LIPA.
Analytes	Alkaline phosphatase (ALP).	Alkaline phosphatase (ALP) , Amylase (AMY) g-glutamyl transferase (GGT), Aspartame aminotransferase (AST), Alanine aminotransferase (ALT), Lactic dehydrogenase (LDH).	Acid Phosphatase (AcP), alanine aminotransferase (ALT), alkaline phosphatase (ALKP) , amylase (AMYL), aspartate aminotransferase (AST), creatine kinase (CK), gamma glutamyltransferase (GGT), lactate dehydrogenase (LDH) and lipase (LIPA).
Form	Liquid.	Lyophilized	Lyophilized
Traceability	Master Pool, Dimension® clinical chemistry system values.	Master Pool, Dimension® clinical chemistry system values.	Values assigned to VITROS Chemistry Product Calibrator Kit 3 are traceable to high quality materials.
Matrix	Bovine protein, porcine kidney based product.	Human serum, bovine kidney based product.	Bovine serum, porcine kidney based product.
Calibration / Verification Levels	One level.	Three levels.	Three levels.

J. Standard/Guidance Document Referenced:

1. Guidance: Guidance for Industry - Abbreviated 510(k) Submissions for In Vitro Diagnostic Calibrators; Final, 02/22/1999
Guidance for Industry and FDA Staff - Use of Symbols on Labels and in Labeling of In Vitro Diagnostic Devices Intended for Professional Use, 11/30/2004
2. Standards: CEN 13640 Stability testing of In-Vitro Diagnostic Devices
ISO 14971:2000 Medical devices -Application of risk management to medical devices

K. Performance Characteristics:

1. Stability: Target shelf life for the Dimension Vista™ Alkaline Phosphatase Calibrator is 12 months. Calibrator shelf life is determined by comparing results of the product stored at 4°C with control stored at -70°C. The method is calibrated from this stored material. The 4°C material values are recovered versus the calibration. Recovery versus time is monitored and percent change over time is determined where the allowable shelf life percent change should be $\leq 6\%$. Shelf-life stability (expiration) dating assignment at commercialization reflects the real-time data on file at Dade Behring, Inc.
A vial punctured by the instrument and stored on board is stable for seven days.
An open vial not on instrument, but recapped and stored in a refrigerator is stable for 30 days.

For testing, vials are opened /punctured on day zero. A quantity sufficient for multiple calibrations is removed and the vials are recapped and stored at 2 – 8 °C. Opened/punctured vials are tested on days 0, 8, 15, 22, and 32 versus freshly opened vials.

2. Traceability: The assigned values of the Alkaline Phosphatase Calibrator are traceable to Master Pool, Dimension® clinical chemistry system.
3. Value Assignment:

The new calibrator Master Pool is made by gravimetrically adding quantities of alkaline phosphatase to StabilZyme® AP to target concentrations. Three levels of Master Pool are prepared and stored at -70° C. The concentrations are verified using a previously approved Master Pool lot as a control. The final bottle

value for the Master Pool is assigned for each level by testing $N = 45$ replicates on multiple instruments.

A stock solution is prepared for the new commercial calibrator lot by gravimetrically adding alkaline phosphatase to StabilZyme® AP to target concentration. The stock solution concentration is verified by comparing the Master Pool assigned bottle values.

For the commercial calibrator lot, calculated quantity of the stock solution is added to StabilZyme® AP to target concentrations. The concentration of the commercial lot is verified to be within acceptable range by using an instrument calibrated with Master Pools. The final bottle value is assigned to the commercial lot level and verified using a previously released commercial lot of calibrator on multiple instruments for $N = 45$ total replicates.



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
2098 Gaither Road
Rockville MD 20850

JUL 18 2006

Mr. Victor M. Carrio
RA/QS Compliance Manager
Dade Behring, Inc.
500 GBC Drive,
PO Box 6101, M/S 514
Newark DE 19714-6101

Re: k061818
Trade/Device Name: Dimension Vista™ ALP Calibrator (KC330)
Regulation Number: 21 CFR§862.1150
Regulation Name: Calibrator
Regulatory Class: Class II
Product Code: JIT
Dated: June 27, 2006
Received: June 28, 2006

Dear Mr. Carrio:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in Title 21, Code of Federal Regulations (CFR), Parts 800 to 895. In addition, FDA may publish further announcements concerning your device in the Federal Register.

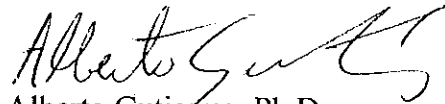
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Parts 801 and 809); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820).

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This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific information about the application of labeling requirements to your device, or questions on the promotion and advertising of your device, please contact the Office of In Vitro Diagnostic Device Evaluation and Safety at (240) 276-0484. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Alberto Gutierrez", is written over the typed name.

Alberto Gutierrez, Ph.D.

Director

Division of Chemistry and Toxicology

Office of In Vitro Diagnostic Device

Evaluation and Safety

Center for Devices and

Radiological Health

Enclosure

Indications For Use Statement

510(k) Number (if known):

Device Name:

K061818

Dimension Vista™ ALP Calibrator (KC330)

Indications for Use:

The ALP CAL is an *in vitro* diagnostic product for the calibration of Alkaline Phosphatase (ALP) method on the Dimension Vista™ System.

Prescription Use X
(Per 21 CFR 801 Subpart D)

AND/OR

Over-the-counter Use _____
(21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of -In Vitro Diagnostic Devices (OIVD)

Carol Benson
Division Sign-Off

Office of In Vitro Diagnostic Device
Evaluation and Safety

510(k) K061818